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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/522,421	03/09/2000	Jacek Stachurski	TI-29010	4064
	590 01/09/200 JMENTS INCORPOR	EXAMINER		
P O BOX 655474	4, M/S 3999	CHAWAN, VIJAY B		
DALLAS, TX 75	5265		ART UNIT	PAPER NUMBER
		•	2626	
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SHORTENED STATUTORY	PÉRIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 01/09/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		09/522,421	STACHURSKI ET AL.			
		Examiner	Art Unit			
•		Vijay B. Chawan	2626			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failur Any r	CORTENED STATUTORY PERIOD FOR REPLETHEVER IS LONGER, FROM THE MAILING DISSIONS of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period the to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tirg will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
2a)⊠	Responsive to communication(s) filed on 30 C This action is FINAL. 2b) This Since this application is in condition for alloward closed in accordance with the practice under the	s action is non-final. ince except for formal matters, pr				
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	•				
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is of	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Information	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) ir No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail E 5) Notice of Informal 6) Other:	Date			

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DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-4 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1-4 define non-statutory processes because they merely manipulate an abstract idea (mathematical algorithm) without a claimed limitation to a practical application. The disclosed invention has a practical application in the technological arts (e.g encoding/quantizing speech waveforms); however, the claimed process, steps to be performed on a computer, simply manipulates an abstract idea without a claimed limitation to the practical application and does not have any post or pre computer process activity.

Claims 1-4 are directed toward a process that does nothing more than solve a mathematical 'problem or manipulate abstract idea or concept, and not patentable under 35 USC 101. (See Interim guidelines, Annex 5). A claimed process consisting solely of mathematical operations, i.e., converting one set of numbers into another set of numbers, does not manipulate appropriate subject matter, and thus cannot constitute a statutory process. (See In re Benson, 409 U.S. at 71-72, 175 USPQ at 676).

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idon/Control Number: 09/322,42

Applicant should note, however, that claims directed to speech or audio signal processing, would be considered to be statutory subject matter. Receiving an input speech signal and using the received input digital speech signal and encoding using strong and weak predictors would constitute pre computer activity.

The disclosed invention of the instant application pertains to an encoding method using strong and weak predictors comprising the step of replacing a strong predictor following a weak predictor with a weak predictor, which is a manipulation of an abstract idea without any limitation to a practical application.

Response to Arguments

3. Applicant's arguments filed 10/30/06 have been fully considered but they are not persuasive. Newly amended claim 1 does not overcome 35 USC 101 rejection. See above. Also when the applicant recites in the claim "spectra vectors" does he mean speech spectral vectors? Even though the applicant amended the claim to include digital speech, the body of the claim language itself does not show or refer to said speech signal as to how that speech signal is being encoded, since the claim is directed to an encoding method of the digital speech signal.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vijay B. Chawan whose telephone number is (571) 272-7601. The examiner can normally be reached on Monday Through Friday 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vijay B. Chawan Primary Examiner Art Unit 2654

vbc 1/8/07 VIJAY CHAWAN PRIMARY EXAMINER